a coating on said first surface of said transparent substrate, said coating being adjacent to the recording head, wherein a thickness of said coating is substantially inversely proportional to a refractive index of said coating;

a light source that directs a beam of light through said transparent substrate and said coating and onto the recording head, wherein the beam of light is reflected from the recording head; and,

a photodetector that detects the reflected light beam;

a computer that is coupled to said photodetector and determines a flying height, said coating thickness having a value so that a minimum intensity level of the reflected light beam is at a negative flying height.

- 23. (New) The tester as recited in Claim 22, wherein said thickness of said coating is further substantially proportional to a wavelength of said light.
 - 24. (New) The tester as recited in Claim 22, wherein said coating is transparent.
- 25. (New) The tester as recited in Claim 24, wherein said transparent coating has a hardness that is greater than a hardness of said transparent substrate.
- 26. (New) The tester as recited in Claim 24, wherein said transparent substrate is a glass material and said transparent coating is a diamond-like-carbon material.
- 27. (New) The tester as recited in Claim 26, wherein said diamond-like-carbon material is hydrogenated.
- 28. (New) The tester as recited in Claim 26, wherein said diamond-like-carbon material is nitrogenated.

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